

## Safety Data Sheet

### 29 CFR 1910.1200

#### Section 1: Company and Product Identification

**Product Name:** Rhodium on Carbon

**Product Code:** 7051

**Company:** Colonial Metals, Inc.  
 Building 20  
 505 Blue Ball Road  
 Elkton, MD 21921 United States  
 Company Contact: EHS Director  
 Telephone Number: 410-398-7200  
 FAX Number: 410-398-2918  
 E-Mail : info@colonialmetals.com  
 Web Site: www.colonialmetals.com



www.colonialmetals.com

**Emergency Response:** Supplier Emergency Contacts & Phone Number  
 Chemtrec: 800-424-9300  
 World Wide - Call COLLECT to U.S: 703-527-3887

#### Section 2: Hazards Identification

GHS07

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**Hazard Pictograms:**



**Signal Word:** Warning

**Hazard Category:** Serious eye damage/eye irritation Cat 3  
 Skin corrosion/irritation Cat 3  
 Acute tox, inh. Cat 5  
 Specific target organ tox, single exp. Cat 3 (resp irrit)  
 Acute tox, oral Cat 5

**Hazard Statements:** H320: Causes eye irritation  
 H316: Causes mild skin irritation  
 H333: May be harmful if inhaled  
 H335: May cause respiratory irritation  
 H303: May be harmful if swallowed

**Precautionary Statements:** P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel  
 P337+313: If eye irritation persists get medical advice/attention  
 P308+313: IF exposed or concerned: Get medical advice/attention

**Hazards not otherwise classified:** Conditions Aggravated By Exposure  
 May cause irritation of the respiratory system. Maintain housekeeping and personal hygiene to minimize exposure and prevent sensitization.  
Conditions Aggravated By Overexposure  
 To the best of our knowledge the chemical, physical, and toxicological effects of this compound have not been thoroughly investigated.  
 Avoid elevated temperature. Product incompatible with Organic and chlorine, bromine, alkali hydroxides, potassium chlorate and alkaline hyposchlorites. Can decompose oxides of rhodium

#### Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Carbon	Irritant	7440-44-0	95
Rhodium		7440-16-6	5
<b>Product Name:</b> Rhodium on Carbon			
<b>Chemical Name:</b> Rhodium Catalyst, Rhodium on charcoal			
<b>Chemical Family:</b> Supported Metal Catalyst			
<b>Chemical Formula:</b> Rh			

**Section 4: First Aid Measures**

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**General Info:** Dust may cause irritation of the respiratory system. Maintain housekeeping and personal hygiene to minimize

**Notable Exposure symptoms:** Irritation to skin, eyes and areas of contact.

**symptoms:**

**If ingested:** Rinse mouth. Seek immediate medical attention. Clear the airway and administer artificial respiration if not breathing.

If swallowed, do not induce vomiting unless directed to do so by medical personnel.

**If inhaled:** Remove the victim from the contaminated area while protecting yourself from exposure by wearing an appropriate respirator. Put a similar respirator on the victim if possible. Get medical attention immediately.

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Get immediate medical attention.

**Skin contact:** Flush area for 15 minutes with water and wash with soap and water. If discomfort occurs or persists, contact a physician. Remove contaminated clothing and shoes and wash before reuse.

**Section 5: Fire Fighting Measures**

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**General Info:** There is a potential for fire when rhodium is exposed to heat or flame. Rhodium will react violently with chlorine trifluoride and oxygen difluoride. Use proper safety equipment. Material is capable of creating a dust explosion. Flammable solid. Emits toxic fumes under fire conditions.

**Extinguishing Method / Equipment:** Use water spray, carbon dioxide, dry chemical powder or dry sand. Do not use organics.

**Method / Equipment:**

**Hazardous Decomposition Info:** Constituents associated with burning / combustion are to be considered toxic. Firefighters should wear self-contained breathing apparatus and full protective gear.

**Decomposition Info:** self-contained breathing apparatus and full protective gear.

**Section 6: Accidental Release Measures**

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**Personal precautions, protective equipment and procedures:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate respiratory protective equipment and clothing during clean-up. Avoid breathing dust. Ventilate area if easy to do so, Contact local authorities if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Containment Equipment and Procedures:** Large Spills: Contain actively spilling material if safe and easy to do so. Do not let product enter drains. Sweep or soak up and place in sealed container for reclamation or disposal, taking care to avoid dusting. Ventilate area and wash spill site after pick-up is complete.

Small Spills: Sweep or soak up and place in sealed container. Taking care to avoid dusting.

**Cleanup Procedures:** Contain spillage and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations.

**Section 7: Handling and Storage**

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**Safe Handling Precautions:** Do not handle until all safety precautions have been read and understood. Keep containers tightly closed. Ensure adequate ventilation. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment and wash thoroughly after handling. Keep away from ignition sources.

**Recommendations for Storage:** Store in cool, dry area in a tightly closed product container away from sources of ignition or flame. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Incompatibilities:** Rhodium will react violently with chlorine trifluoride and oxygen difluoride.

**Section 8: Exposure Control / Personal Protection**

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**General / Ventilation:** Local Exhaust: Required in handling area

**Engineering Controls:** Mechanical: Desirable to insure concentration of material below TLV/TWA levels

**Controls:** Other: Closed Ventilation system - Dust (Laboratory Fume Hood)

**Work Clothing:** Protective work clothing which covers skin and prevents exposures.

**Eye/face protection:** Wear safety glasses with side shields or goggles or face shield.

**Skin Protection:** Wear chemical resistant gloves.

**Respiratory Protection:** Utilize organic vapor respirator if airborne levels are not maintained or if ventilation is inadequate. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

**Additional Information:** ACGIH TLV for Rhodium metal – 1mg/m

**Section 9: Physical and Chemical Properties**

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<b>State:</b> Solid Powder	<b>Melting Point:</b> N/A	<b>Freezing Point:</b> N/A
<b>Color:</b> Gray Black	<b>Boiling Point/Range:</b> N/A	<b>pH:</b> N/A
<b>Molecular Wt.:</b> N/A	<b>Odor:</b> Odorless	<b>Water Solubility:</b> Insoluble
<b>Specific Gravity:</b> N/A	<b>Flash Point:</b> N/A	<b>Part. Coeff (n-octanol/water):</b> N/A
<b>Upper Flam Limits:</b> N/A	<b>Lower Flam Limits:</b> N/A	<b>Vapor Pressure:</b> N/A
<b>VOC Content (lbs/gal):</b> N/A	<b>Viscosity:</b> N/A	<b>Autoignition Temp:</b> N/A

**Section 10: Stability and Reactivity**

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**General:** This product is stable and non-reactive under normal conditions of use. Product is not subject to hazardous polymerization. Avoid open flame and ignition sources.

**Stability:** Stable

**Conditions to Avoid:** Mixtures of fine dust with air. Contact with an ignition source. Auto ignition may occur upon contact with alcohols

**Incompatible materials:** Strong oxidizing agents, alcohols, and related organics

**Decomposition products:** Hazardous decomposition products formed under fire conditions –Rhodium Oxides

**Section 11: Toxicological Information**

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**General Information:** To the best of our knowledge the chemical, physical, and toxicological effects of this compound have not been thoroughly investigated.

**Toxicological Information (product):** No data available

**Likely Routes of Exposure:** Eye Contact  
Skin Contact  
Inhalation  
Ingestion - possible, but considered unlikely.

**Toxicological Information (contained substances)**

**Sensitization:** Product is not expected to be a sensitizer.

**Section 12: Ecological Information**

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**General information:** No data available

**Aquatic toxicity:** No data available

**Degradation / Mobility info:** No specific data available.

**Bioaccumulative potential:** No specific data available.

**Section 13: Disposal Information**

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**Product disposal:** Place in a sealed container. Consult Federal EPA, State and local regulations for proper disposal/recycle/reclamation  
NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate.

**Container disposal:** Treat empty containers with extra care. Consult waste contractor.

**Other considerations:** No further information.

**Section 14: Transport Information**

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**DOT:** Non-Hazardous

**IMO/IMDG:** No data available

**IATA:** Same as DOT 49 CFR regulations. Consult IATA before shipping

**Section 15: Regulatory Information**

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**TSCA:** All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory

**SARA SARA 302 Components**

**302/311/312/313** This material does not contain any chemical components SARA Title III, Section 302 reporting requirements.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that are above the threshold reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Canadian DSL:** This product has been classified in accordance with the hazard criteria of CPR, and the MSDS contains all the information required by the CPR.

**Other International European Union (EU) Regulatory Information**

**Regulations:** R37/38 - Irritating to respiratory system and skin  
S24/25 - Avoid contact with skin and eyes  
S22 - Do not breathe dust  
S24/25 - Avoid contact with skin and eyes  
S7/8 - Keep container tightly closed and dry

**Section 16: Other Information**

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**NFPA Rating**

Health: 2  
Fire: 1  
Reactivity: 0

**HMIS Rating**

Health: 2  
Fire: 1  
Reactivity: 0  
Personal  
Protection: B

**Precautionary Label:** Can be irritating to eyes and skin

**Disclaimer:** In compliance with the OSHA Hazard communication Standard, 29 C.F.R 1910.1200, we are providing you with a Materials Safety Data Sheet (MSDS) for the hazardous material you are purchasing.

*It is your responsibility to educate your employees on the safe use of the hazardous material. With this in mind, a copy should be forwarded to the supervisor of the user or to the user themselves, and copy should be retained in your files for future reference.*

*Colonial Metals, Inc. makes no presentation as to the accuracy of the information in the MSDS. The information is believe to be correct; however, you (the customer), should preform your own investigation and independent verification. If you resell the product, you are responsible to forward the information in the MSDS to your customer.*

Colonial Metals, Inc.

**Version Date:** 7/30/2015